

999 WEST VALLEY ROAD WAYNE, PENNSYLVANIA 19087 215-687-9510

ORIGINAL (Red)

May 13, 1988 T-585-5-83 68-01-7346

Mr. Ben Mykijewycz U.S. Environmental Protection Agency 841 Chestnut Streets Philadelphia, PA 19107

Dear Mr. Mykijewycz:

Attached please find non-sampling site reconnaissance summary report for Lewistown Gas Plant , prepared under TDD No. F3-8802-28.

Please endorse below confirming that you have received the attached subject data and return the form to the above address.

Sincerely,

Garth Glenn

Regional Operations Manager,

FIT 3

GG/1s

Attachments

Signature:

Ben Mykijewycz

Date:



999 WEST VALLEY ROAD WAYNE, PENNSYLVANIA 19087 215-687-9510

> ORIGINAL (Red)

May 13, 1988 R-585-5-8-10 68-01-7346

Mr. Ben Mykijewycz U.S. Environmental Protection Agency 841 Chestnut Building Ninth and Chestnut Streets Philadelphia, Pennsylvania 19107

Subject:

Non-Sampling Site Reconnaissance Summary Report

TDD No. F3-8802-28 EPA No. PA-1123 Lewistown Gas Plant

Lewistown, Mifflin County, Pennsylvania

Dear Mr. Mykijewycz:

Submitted herewith is a Non-Sampling Site Reconnaissance Summary report for the subject site. Based upon our review of available data and the site visit, EPA may wish to consider the following:

• No further remedial action should be pursued under CERCLA due to a low Hazard Ranking System (HRS) score of 19.31. Although a lack of targets may preclude this site from National Priorities List (NPL) consideration, environmental concerns on site may warrant that a sampling program be performed by the applicable federal or state agency. If such actions are pursued or if a site inspection is deemed warranted, the following sampling points should be considered:

Proposed Sampling Plan

The proposed sampling locations include the following:

- Aqueous and sediment samples should be obtained from gas holder tank no. 1.
- Aqueous and sediment samples should be obtained from gas holder tank no. 2, if possible.
- A soil sample should be obtained near the discharge valve of gas holding tank no. 1.



Mr. Ben Mykijewycz U. S. Environmental Protection Agency May 13, 1988 - Page 2 Lewistown Gas Plant Site Non-Sampling Site Reconnaissance Summary Report

The Lewistown Gas Plant (LGP) is an active natural gas distribution facility located on three to five acres of land. Penn Fuel Gas, Incorporated has owned the plant since November 13, 1947. Prior to this date, Pennsylvania Power and Light owned the plant.

Although no targets were identified, groundwater and surface water contamination is possible because of past storage and disposal methods. The LGP manufactured gas from 1896 until 1956. The gas was stored on site in two holding tanks. Possible groundwater contamination may have occurred over the winter of 1982/1983. Oldover Corporation purchased tar residue from tank no. 1 for its British Thermal Unit salvage value. During loading of the shipment, some liquid was spilled accidently onto the ground surrounding the discharge valve. According to Joseph Martin, LGP manager, the amount of liquid spilled was minimal.

The cause for concern of possible surface water contamination is the direct discharge of liquid from the gas plant into the Juniata River via a pipeline. Mr. Martin states that all liquid wastes were passed through a scrubber before it was discharged. The plant did not possess an NPDES permit. The last date of discharge from the pipe was 1956. The pipe was removed when construction for the Route 22 Lewistown bypass began.

The Lewistown Water Authority supplies potable water to 23,000 persons within a 90-square-mile area. The authority obtains its water from a surface intake located eight miles west of Lewistown in Armagh Township. While approximately 400 residences utilize private wells within 3 miles of the site, none were located within 1/2 mile. The site lies 1/4 mile north of the Juniata River; the Route 22 Lewistown bypass is situated between the two.

If you any further questions, please contact me.

Respectfully submitted,

Reviewed by,

Approved by,

AUTHUR

Attachments

R-585-5-8-10

NON-SAMPLING SITE RECONNAISSANCE SUMMARY REPORT LEWISTOWN GAS PLANT PREPARED UNDER

TDD NO. F3-8802-28 EPA NO. PA-1123 CONTRACT NO. 68-01-7346

FOR THE

HAZARDOUS SITE CONTROL DIVISION U.S. ENVIRONMENTAL PROTECTION AGENCY

MAY 13, 1988

NUS CORPORATION SUPERFUND DIVISION

Site Name: <u>Lewistown Gas Plant</u>

TDD No.: F3-8802-28

ORIGINAL (Red)

Scope of Work

NUS FIT 3 was tasked to conduct a non-sampling site reconnaissance of the subject site.

Background Information

The Lewistown Gas Plant (LGP) is located in the borough of Lewistown, in Mifflin County, Pennsylvania. Its coordinates are 40° 35′ 20″ north latitude and 77° 33′ 45″ west longitude. The site is located in a light industrial area adjacent to a residential neighborhood (see figure 1, page 2).

The LGP is currently an active natural gas distribution facility situated on approximately three to five acres of land. The plant is also engaged in the retail propane business. Penn Fuel Gas, Incorporated, has owned the gas plant since November 23, 1947. Prior to this date, Pennsylvania Power and Light owned the plant. Access to the site is restricted via a lockgate and fence.

Groundwater and surface water contamination are possible environmental concerns at this site because of the past storage and disposal methods utilized when the plant manufactured gas. Water gas (gas derived from coal) was produced from 1896 until 1956. The gas was stored on site in two holding tanks (refer to attachment 2 for dimensions). There is no record indicating that accidental spills occurred while the plant manufactured gas. Holding tank no. 1 has not been used since 1956. Holding tank no. 2 was used for peaking gas (storing gas to release during the peak demand periods) until 1964. According to Joseph Martin, LGP manager, a release occurred during the winter of 1982/1983. Oldover Corporation, of Ashland, Virginia, purchased the tar residue in holding tank no. 1 for its British Thermal Unit salvage valve. Approximately 14 shipments were made biweekly during this period. The final shipment was returned to LGP because the water to tar ratio was 98 percent. This shipment was pumped back into the holding tank. According to Mr. Martin, a small amount of liquid accidentally spilled onto the ground when the last shipment was drawn out of and pumped back into the holding tank. Mr. Martin also stated that this liquid, which was gray with black flecks, was never pumped directly onto the ground. The amount of liquid spilled is not known. This spill constitutes the concern of possible groundwater contamination.

Currently, the holding tanks are unused and still contain liquid. The water levels in holding tank nos. 1 and 2 are approximately 12 feet and 30 feet, respectively. Holding tank no. 2 has no tar in its inner shell, while holding tank no. 1 has approximately five feet, four inches of tar in its inner shell. Both tanks contain a water, rust inhibitor, and permanent antifreeze solution in their outer shells.

Site Name: <u>Lewistown Gas Plant</u>

TDD No.: <u>F3-8802-28</u>

The cause for concern of possible surface water contamination is the direct discharge of liquid from the gas plant into the Juniata River. According to Mr. Martin, liquid waste from the gas plant passed through a scrubber before it was discharged through a pipe into the Juniata River. The plant did not possess an NPDES permit. The last date of discharge from this pipe was 1956. The pipe was removed when construction for the Route 22 Lewistown bypass began. A 1984 Pennsylvania Department of Environmental Resources (PA DER) preliminary assessment report states that neighbors observed pools of tar surrounding the mouth of the discharge pipe. This location is unknown since the pipe has been removed (see figure 2, page 4).

Residents of Lewistown Borough utilize municipal supplies as a potable source. While approximately 400 residences utilize private wells within 3 miles of the site, none were located within 1/2 mile. The Juniata River, 1/4 mile south of the site, is used for recreational purposes.

Sampling to Date

The district of Lewistown sampled the contents of gas holding tank no. 1 at LGP's request. The analyses were conducted at Lancaster Testing Laboratory. In 1986, Penn Fuel Gas, Incorporated had holding tank no. 1 sampled by Environmental Research Technology.

Laboratory data were requested by George Rhodes, senior vice-president of Penn Fuel Gas, Incorporated, during the FIT 3 March 31, 1988 site visit. Another request was made by NUS FIT 3 on April 19, 1988. The information was received by the FIT office on May 9, 1988 and can be found in attachment 3.

Geology Information

The LGP site is located in the Appalachian Mountain Section of the Valley and Ridge Physiographic Province. The Ordovician through Devonian age bedrock have been folded into a series of northeast-southwest trending anticlines and synclines. The topography is characterized by a northeast-southwest trending succession of narrow, steep-sided ridges and valleys.¹

The site is underlain by the Silurian age Wills Creek Formation, which consists of interbedded oliveand greenish-gray, calcareous and noncalcareous shale, and argillaceous limestone. There are a few interbeds of grayish-red shale and gray, fine-grained sandstone.¹ Reported thicknesses range from about 400 to 650 feet.¹ president for Penn Fuel Gas. A PA DER official was unable to join the FIT in the investigation. Permission to obtain photograph documentation was granted by Mr. Rhodes. Photographs were taken on site (see attachment 1).

The weather was slightly overcast, with temperatures in the mid-40s.

Persons Contacted

Prior to Field Trip

George Rhodes Senior Vice-President Penn Fuel Gas 55 South Third Street Oxford, PA 19363 (215) 932-2000

Robert Swift Attorney for Penn Fuel Gas Savett, Klein, and Graf Law Firm 1101 Market Street, 24th Floor Philadelphia, PA 19107 (215) 238-1700

At the Site

George Rhodes Senior Vice-President Penn Fuel Gas 55 South Third Street Oxford, PA 19363 (215) 932-2000 James McCreary
Site Investigation Officer
U.S. EPA
841 Chestnut Building
Ninth and Chestnut Streets
Philadelphia, PA 19107
(215) 597-1105

Jeffrey Stout Solid Waste Specialist PA DER 615 Howard Avenue Altoona, PA 16601 (814) 946-7292

Water Supply Well Information

Based upon information gathered during the FIT 3 home well survey, no home wells are located within 1/4 mile of the subject site.

Site Name: <u>Lewistown Gas Plant</u>

TDD No.: F3-8802-28

ORIGINAL (Red)

The Bloomsburg and Mifflintown Formations yield sufficient water for small to moderate supplies. Well yields range from 1 to 150 gpm. The medians for domestic and nondomestic wells are 15 and 18 gpm, respectively. Median well depths are 145 and 250 feet, respectively, for domestic and nondomestic wells.1

The direction of shallow groundwater flow at the site is expected to be southwest toward the Juniata River.1

Site Name: Lewistown Gas Plant

TDD No.: <u>F3-8802-28</u>

Site Observations

ORIGINAL (Red)

No HNU readings above the background reading of 0.2 ppm were recorded.

• The mini-alert was set at the X1 position; no readings above background were recorded.

Access was restricted by a fence that ran between the gas holders and the old gas plant and

surrounded the liquid propane gas tank and methanol drum storage area.

• The gas holding tanks' access ladders were retracted above the ground approximately seven

feet, but could be pulled down and used.

• The ground encircling the base of the gas holder no. 1 was partially grass and partially laid in

brick. The only stained areas noted were a result of the holder's rusting.

• Empty propane tanks were lined up against the gas holders inside the fence.

Access to the underground gas lines was via a submerged discharge valve. Soils surrounding

the valve did not appear to be stained.

A blue material resembling crushed coal appeared to be resting on the soil surface near the

fence line running north and south.

• A liquid propane gas tank was located 50 feet south of gas holder no. 2.

A methanol drum storage area was located outside, approximately 10 feet southwest of the

liquid propane tank. Fourteen drums were recorded; all but 1 was on its side. Some were on

platforms and some were covered with plastic. Five of 14 drums had liquid in them.

An uncontained coal patch pile, approximately 25 feet in diameter, was noted next to a

pipeline storage area to the rear and south of the old gas plant.

• Both gas holding tanks, constructed of steel plates with pop rivets, were surficially rusted.

According to Joseph Martin, plant manager, tank no. 1 has a hole of unknown size on top of

the tank. Both tanks seemed secure. No leaks or cracks could be detected.

Site Name: <u>Lewistown Gas Plant</u>

TDD No.: <u>F3-8802-28</u>

Geology and Groundwater References

Red)

1. Taylor, L.E., et al., Pennsylvania Geological Survey. Groundwater Resources of the Juniata River Basin, Pennsylvania. Water Resource Report 54, 1982.

2. United States Department of Agriculture, Soil Conservation Service. <u>Soil Survey of Juniata and Mifflin Counties, Pennsylvania</u>. 1981.

ATTACHMENT 1

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ATTACHMENT 2

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Lewistown Gas Plant

Gas holding tank information

Holding Tank No. 1

Circumference

214 feet, 5 inches

Diameter

68.25 feet

Shell height

22 feet, 8 inches

Water level

12 feet

Tar level

5 feet, 4 inches

Total height

48 feet, 2 inches

Holding Tank No. 2

Circumference

270 feet, 8 inches

Diameter

86.15 feet

Shell height

30 feet

Water level

30 feet

Tar level

0 feet

Total height

61 feet, 4 inches

ATTACHMENT 3

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SUMMARY OF GAS HOLDER AQUEOUS PHASE ANALYTICAL CHARACTERIZATION

Parameters	Lewistown
BOD ₅ , mg/1	200
Suspended Solids, mg/1	440
Phenolics, mg/1	0.38
Metals	
 Copper, mg/l Nickel, mg/l Zinc, mg/l 	0.05 < 0.03 0.12
Total Organic Halogen, ug/l	1 20
RCRA Characteristics	
 Corrosivity, NACE Std, in/yr Reactivity Cyanide, Total, mg/l 	< 0.01 0.15
- Sulfide, mg/l	< 0.1
• EP Toxicity	
- Arsenic - Barium	< 0.001 < 0.1
- Cadmium	< 0.005
- Chromium	< 0.01
- Lead	<0.03
- Mercury	<0.0002
- Selenium	< 0.004
- Silver	< 0.01

5



TABLE 4-3
SUMMARY OF GAS HOLDER TAR/OIL SLUDGE ANALYTICAL CHARACTERIZATION

Parameters	Lewistown
Total Organic Halogen, mg/kg	< 100
RCRA Characteristics	
 Ignitability, Flash Point, ^OF 	>140
• Corrosivity, pH	7.2
Reactivity	
- Cyanide, Total, mg/kg	20
- Sulfide, mg/kg	<u>290</u>
• EP Toxicity	
/Arsenic, mg/l	0.002
- Barium, mg/l	1.4
- Cadmium, mg/l	< 0.005
- Chromium, mg/l	<0.01
- Lead, mg/1	0.08
- Mercury, mg/l	<0.0002
- Selenium, mg/l	< 0.004
- Silver, mg/l	< 0.01

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NUS CORPORATION AND SUBSIDIARIES 4802-28-16

TELECON NOTE

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NUS CORPORATION AND SUBSIDIARIES

8802-28-17

TELECON NOTE

NUS CORPORATIO	N AND SUBSIDIARIES	TELECON NOTE
CONTROL NO:	DATE: 4-19-88	1400 hp.
DISTRIBUTION:	: water Lupply	ORIGINAL (Red)

DISCUSSION:
Water Louice is located en amoghtop.
located 8 miles mest of Site.
Laurel Ren Creek - used for fishing.
Dam - fishing from The west shore
RAN Water is fluoridated
2 storage TANKS at Filtering plant
5 storage tanks throughtut system.
Lusevior - in town = andstidge St. Imille.
gallons, lined + covered W/ Rubber.
In 1885 5 water mains are dated this for
back. There used to be a water companies
that fromed the Lowistown authority (Redso
Natur is tested every well for Bacteria. ACTION ITEMS:
ACTION ITEMS:
Heavy netals + Inoganics run at different
times according to PADER regulations.
Fittration has been used since 1964.
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United States Department of the Interior

FISH AND WILDLIFE SERVICE Suite 322

315 South Allen Street State College, Pennsylvania 16801

April 18, 1988



Regional Operations Manager, FIT 3 NUS Corporation 999 West Valley Road Wayne, PA 19087



This responds to your letters of March 21 and 22, requesting information on endangered or threatened species within the area affected by the following uncontrolled hazardous substance sites:

S	1	te

Ambridge Fill
Westvaco Woodyard
Clarion Homes
Snyder Township Landfill
Precision National Corporation
Gibbles Quarry
Lebanon Steel Foundry - Bachman Site
High Quality Polishing & Plating
Volney Felt Company
Lewistown Gas Plant
La Mac Foundry, Inc.
Manion Paint and Varnish
Oil City Glass Company
Caterpillar Tractor, Co., Inc.
Hanover Borough Sanitary Landfill

County

Beaver
Blair
Clarion
Jefferson
Lackawanna
Lancaster
Lebanon
Lehigh
Lehigh
Lewistown
Mifflin
Venango
Venango
York
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Two federally listed endangered birds are expected to be found as transient species in the project area. They are the bald eagle (Haliaeetus leucocephalus) and peregrine falcon (Falco peregrinus). There is no listed critical habitat for these species in the project area.

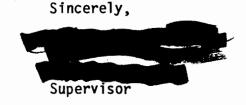
We have no information to indicate that any endangered species under our jurisdiction reside within a radius of three miles of the project site. Therefore, no Biological Assessment or further Section 7 consultation under the Endangered Species Act (87 Stat. 884, as amended; 16 U.S.C. 1531 et seq.) is required with the Fish and Wildlife Service. Should project plans change, or if additional information on listed or proposed species becomes available, this determination may be reconsidered. A compilation of federally listed endangered and threatened species in Pennsylvania is enclosed for your information.

The State of Pennsylvania has classified certain species as threatened or endangered. We suggest that you contact the Pennsylvania Fish Commission (fish,reptiles and amphibians), the Pennsylvania Game Commission (wildlife) and the Pennsylvania Department of Environmental Resources (plants) for further information on these species.

Your letter does not contain enough information for us to determine if other resources of concern to the Service are being affected by the sites or proposed actions at the site. Specifically, we are concerned that chemical contaminants on or migrating from uncontrolled hazardous substance disposal sites may have acute or chronic toxicity effects on terrestrial and aquatic life. For example, open waste ponds, leachate seeps, and off-site contamination of streams or other surface waters can represent significant hazards to fish and wildlife resources. Food chain effects of substances that bioaccumulate or biomagnify increase these hazards.

On sites where chemical contaminants are or could be released to significant terrestrial wildlife habitat, wetlands, or surface waters, we recommend that biological studies be incorporated into your evaluation of the sites. For example, an indication of the bioavailability of contaminants released into surface waters can be obtained relatively easily by collecting two composite fish samples. We would be happy to review and comment on plans for proposed fish and wildlife studies.

Please contact us if we can be of further assistance.



Enclosure

FEDERALLY LISTED ENDANGERED AND THREATENED SPECIES IN PENNSYLVANIA

Common Name	·Scientific Name	Status	Distribution
FISHES: Sturgeon, shortnose* REPTILES: NONE	Acipenser brevirostrum	E	Delaware River and Other Atlantic Coastal waters
BIRDS: Eagle, bald Falcon, American peregrine	Haliaeetus leucocephalus Falco peregrinus anatum	E E	Entire state Entire state - re-establishment to former breeding range
Falcon, Arctic peregrine	Falco peregrinus tundrius	E	in progress Entire state migratory - no nesting
MAMMALS: Bat, Indiana Cougar, eastern	Myotis sodalis Felis concolor couguar	E E	Entire state Entire state - probably extinct
MOLLUSKS:	· · · · · · · · · · · · · · · · · · ·		
PLANTS: Pogonia, small whorled	Isotria medeoloides	E	Berks, Centre, Chester, Greene, Monroe, Montgomery, Philadelph Venango Counties

^{*} Principal responsibility for this species is vested with the National Ma Fisheries Service.

Critical Environments

The bald eagle (KAliacetus Leucocephalis) (Red) peregune falcon (FAICO peregrinus) are 2 feberally histid engare endangered birth expected to be found as transiant species in the project area. There is no listed critical habitat for these species in the project area.

The United States Fish + Wildlife Service has no information to indicate that any endangered species under their jurisdiction reside within a 3-mile radius of the project and Site. Therefore, no Biological assessment or further Section 7 consultation under the Endangered Species act (87 Stat. 884, as agreended; 16 U.S.C. 1531 et Seq.) is required with the Fish + Wildlife Service

Kulp, charles, United States Department of the Interior, Fish + Wildlife Service, to Garth Glunn, NUS FIT 3. Correspondence, 41888.

Lewistonn Gas Plant.

Personal Protective Equipment

	Safety Plan Re	equirements	Level Used	If Deviations,
				explain
Activity: 5/4c rcm	Respiratory Protection	٥	D	None
	Field Dress	F	F	
Activity:	Respiratory Protection			
	Field Dress			
Activity:	Respiratory Protection			
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Activity:	Respiratory Protection			
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Activity:	Respiratory Protection			
	Field Dress			

TDD No.: 8802-28 Site Name: Lewiston Gas flant.

MONITORING EQUIPMENT

a. HNU			47
•	Background reading	0.2 ppm	
•	Readings above background		
•	Location of high readings		
•	What action was taken?		
b. Radia	tion		
•	Readings above background?	Yes No	
•	If yes, specify where readings	were found and what action was taken.	
c. Heat	Stress/ Cold Stress		
	Was heat stress or cold stress r	monitoring performed?	
	Yes	No	
	Was a monitoring/break sched	dule followed?	
	Yes	No	
	If monitoring was not perform	rmed, or the monitoring/break schedule was not f	followed,
	please explain.		
	Not reeded.		
d. Othe	r Monitoring Instruments \mathcal{N}	/A	
	-	np (specify tube)	
	What readings were fo	ound and what action was taken	
	-		
	Explosimeter/02 meter	r	
	Air Sampling		
	What air sampling equ	uipment was used?	

TDD No.: 8802-28 Site Name: Courstonn Gas Plant

The media used for sampling included: $\mathcal{N} \not \mapsto$					
Filters (type)					
Charcoal Tubes/Silica Gel Tubes					
Impingers (Liquid Media)					
Other Media					
The air samples taken wereen	vironmental				
pe	ersonal				
The following team members wore personal sampling pumps.					
	•				
Team member	Location of media				
1.					
2.					
3.					
4.					
5.					
6.					

TDD No.: 8702-28.
Site Name: Cowistown

GENERAL SAFETY

Confined Space Entry	
(Confined space - a tank, vessel, silo	o, storage bin, hopper, vault, pit, diked area, aban
building, manhole, or any other encl	osed space with limited means of exit or entry that
designed for continuous occupancy.)	
Did any team member enter a contine	ed space area?
Yes	No
If yes, please explain.	
<u>Accide</u>	nt Report Information
	ent Report Information Yes No
Did any team member report: • Chemical Exposure	
Did any team member report:	Yes No
Did any team member report: • Chemical Exposure	Yes No
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Did any team member report: Chemical Exposure Illness, discomfort, or unusual sym Environmental Problems (heat, co	Yes No

TDD No.: 8802-28 Site Name: Cuvistom Las Plant

Safety Plan Evaluation

ORIGINAL (Red)

a. Were there any deviations from the Safety Plan? If yes, please explain.	
b. Was the Safety Plan adequate?	Yes No
c. What changes would you recommend?	
None	

NUS CORPORATION	AND SUBSIDIARIES	8802-28-	19 TELECON NOTE
CONTROL NO:	DATE: 3-28		1330 ML
DISTRIBUTION:	Change of Le: 45, 4e	accres date	ORIGINAL (Red)
	switch board OF:	an Fuel Co.	PHONE: (2/5) 932-200
AND:			Nus
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NUS CORPORATION AND SUBSIDIARIES 8802-28-20 TELECON NOTE DATE: TIME: CONTROL NO: 3-22-88 DISTRIBUTION: Re: correspondance OF: Lewistoungas PHONE: BETWEEN: e Rhodes AND: NUS DISCUSSION: **ACTION ITEMS:** I will call Jin NUS 067 REVISED 0685

NUS CORPORATION AND SUBSIDIARIES 8402-28-21 TELECON NOTE					
CONTROL NO:	DATE: 3-22-88	TIME	!: // <i>0</i> 0	hry	
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Jim McChean	y CF) / A	PHONE: (215) 5	97-1105	
AND:				NUS	
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